Linear Equations

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Echelon Forms (1)

zero rows Should be grouped at the bottom

non-zero row A leading one

The 1st non-zero element should be one

Any successive non-zero rows

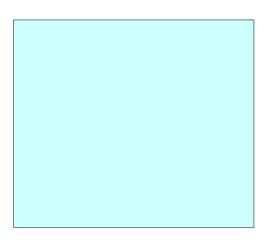
The leading one of the lower row should be farther to the right than the leading one of the higher row

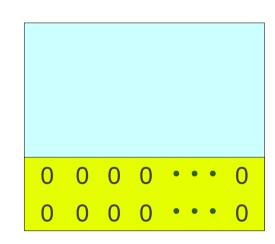
Echelon Forms (2)

zero rows



Should be grouped at the bottom





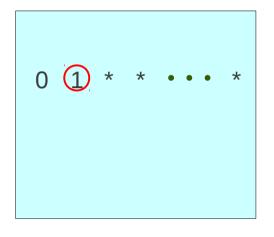
Echelon Forms (3)

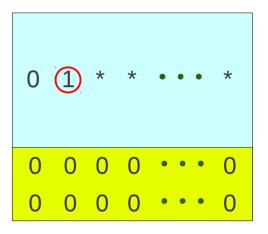
non-zero row



A leading one

The 1st non-zero element should be one



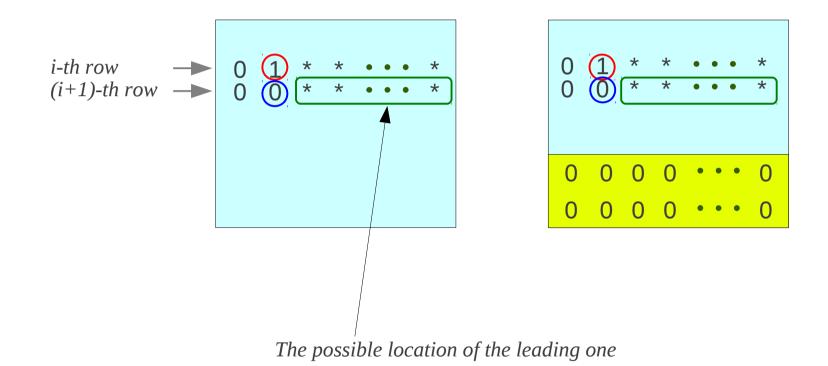


Echelon Forms (3)

Any successive non-zero rows



The leading one of the lower row should be farther to the right than the leading one of the higher row



Reduced Echelon Forms

zero rows



Should be grouped at the bottom

non-zero row



A leading one

The 1st non-zero element should be one

Any successive non-zero rows



The leading one of the lower row should be farther to the right than the leading one of the higher row

Any column that contains a leading one

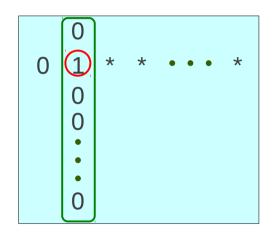


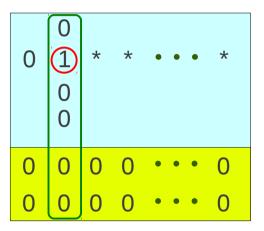
All other elements except the leading one are all zeros

Reduced Echelon Forms

Any column that contains a leading one

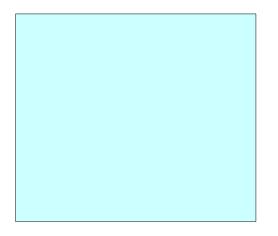
All other elements except the leading one are all zeros

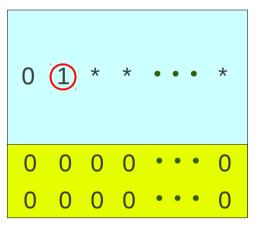




Common Base (2)

0 1 * * • • *





Common Emitter (1)

Common Emitter (2)

Common Emitter (2)

Maintain Magnetic Field

Storing Magnetic Energy

Dissipate Magnetic Energy

Pulse

Pulse

References

- [1] http://en.wikipedia.org/
- [2] J.H. McClellan, et al., Signal Processing First, Pearson Prentice Hall, 2003